

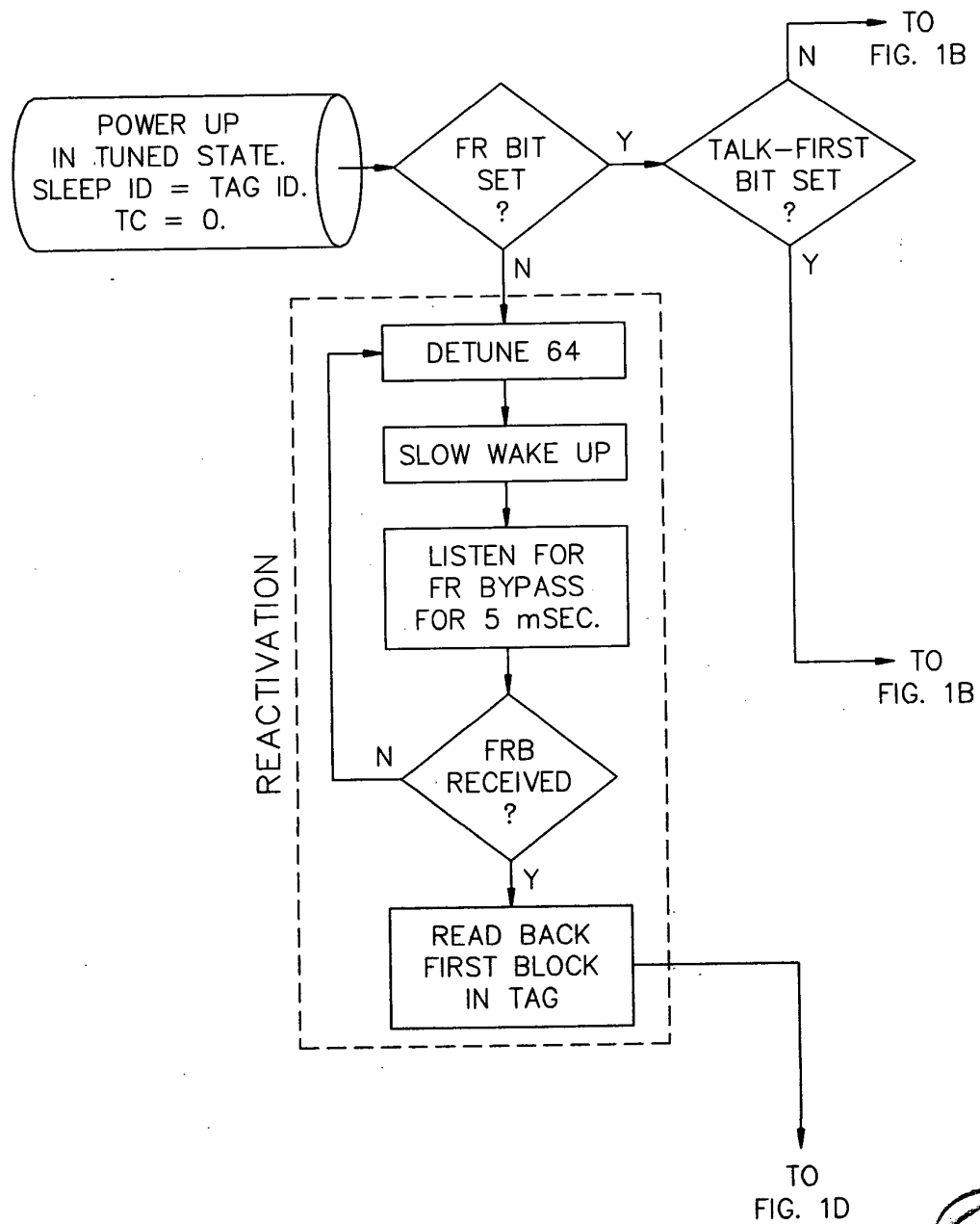
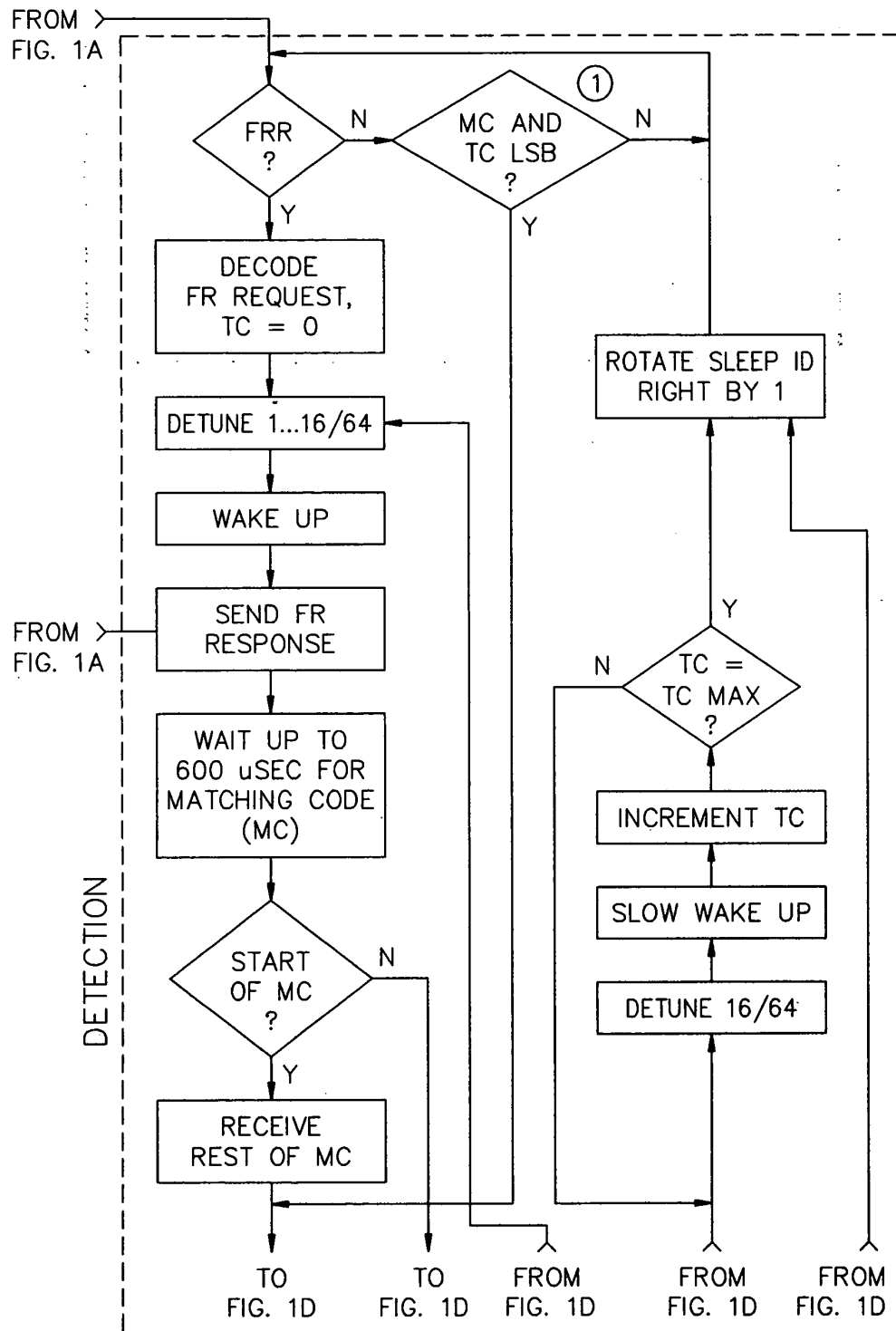
ANTI-COLLISION FLOWCHART**Fig. 1a**

Fig. 1b

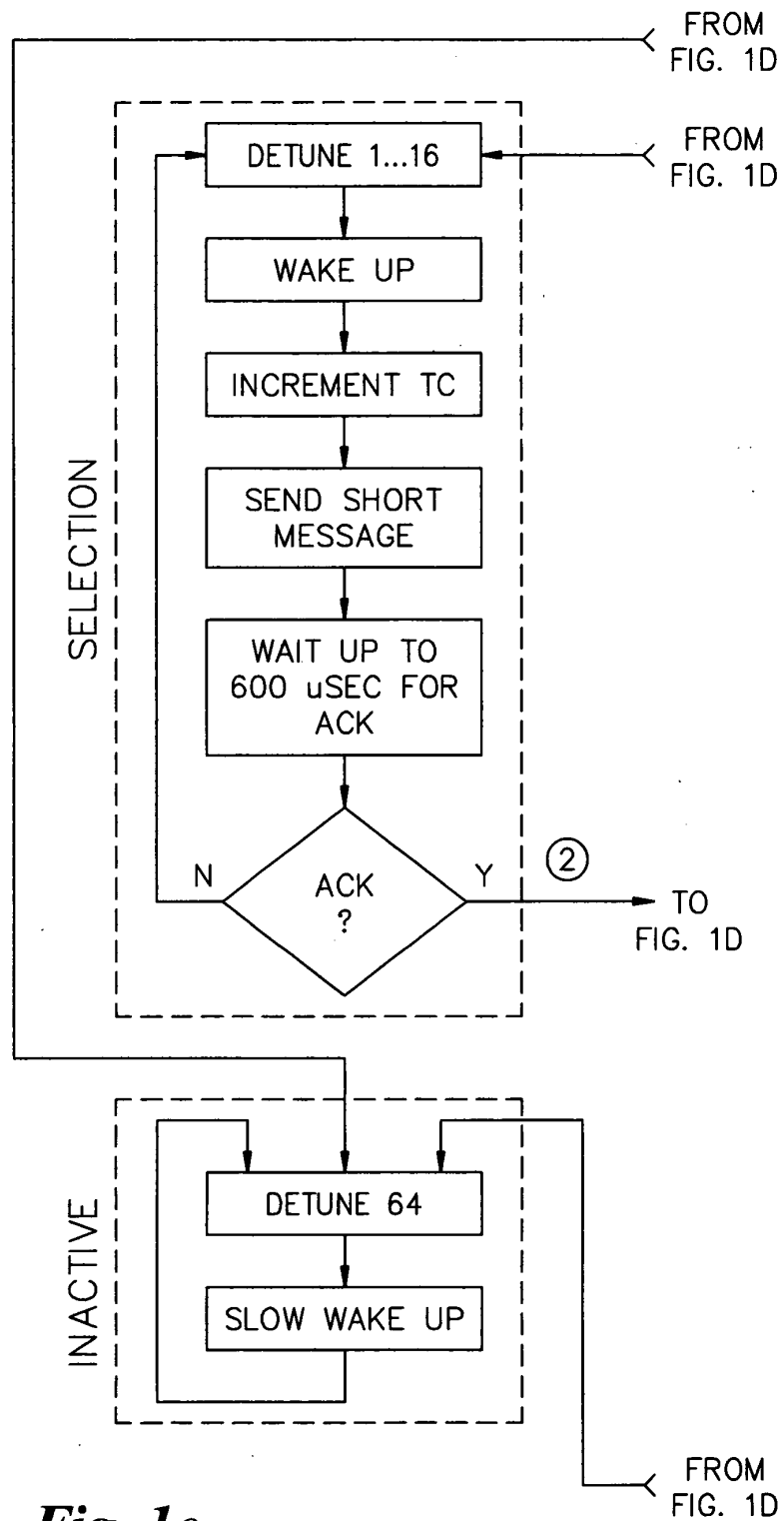
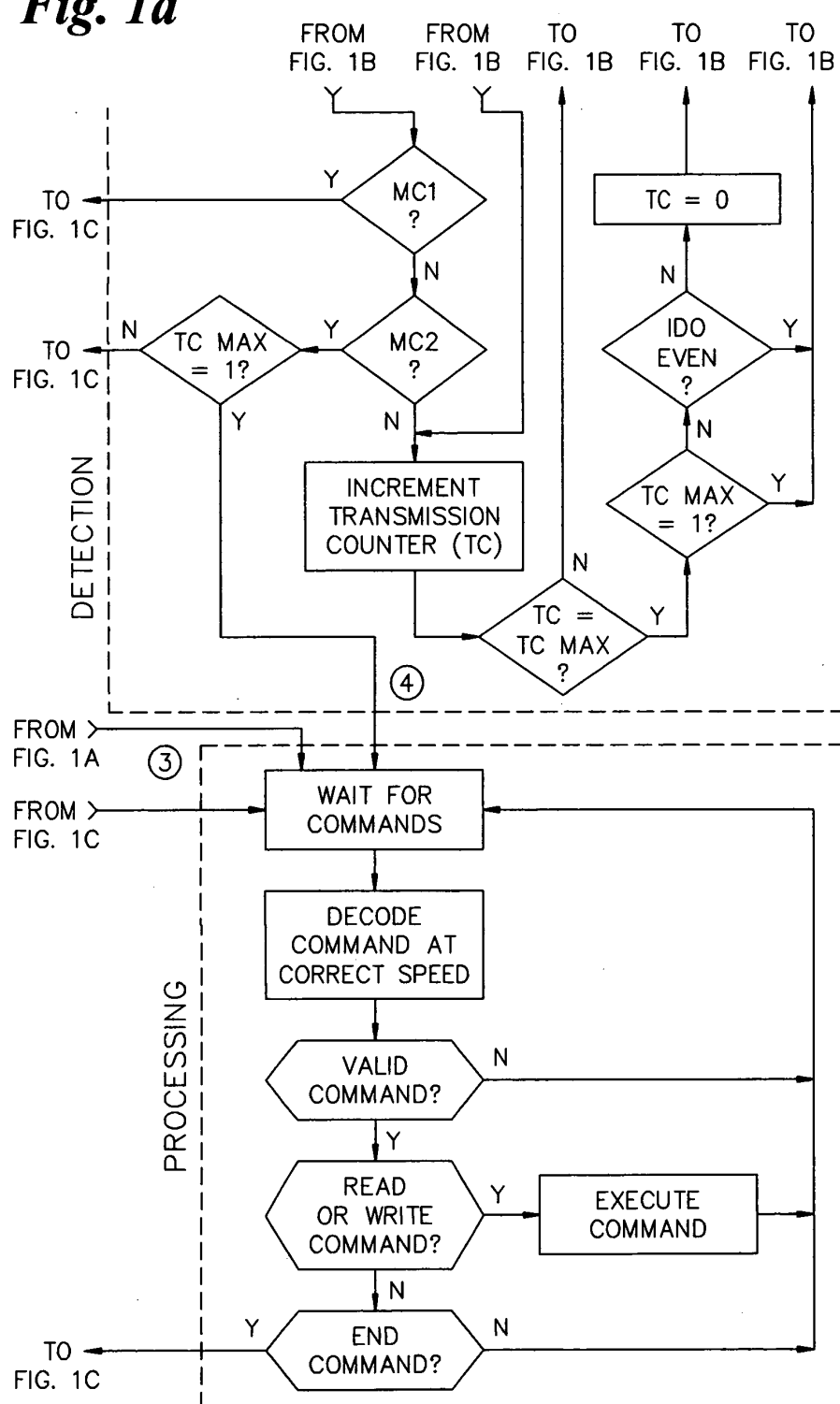
**Fig. 1c**

Fig. 1d

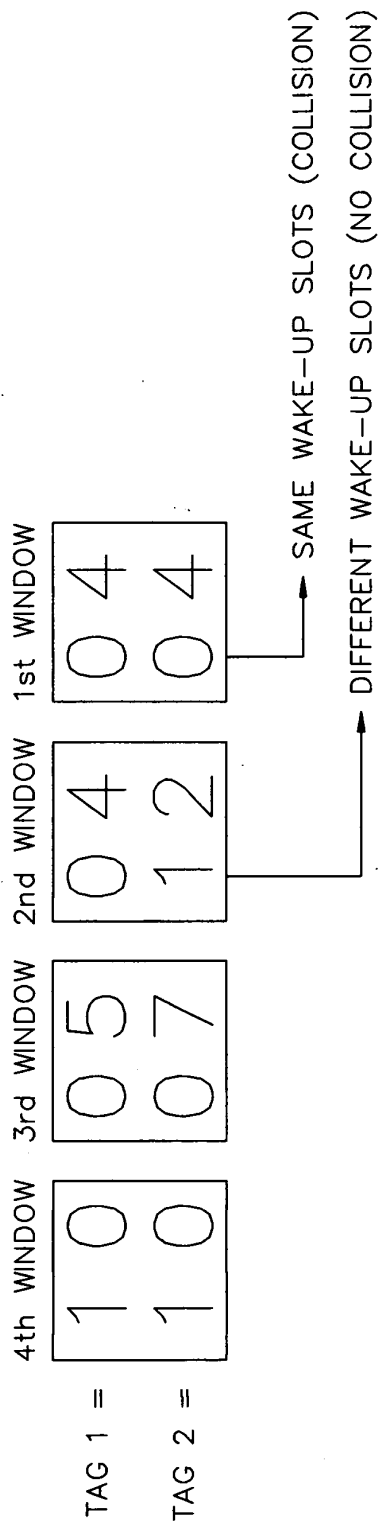
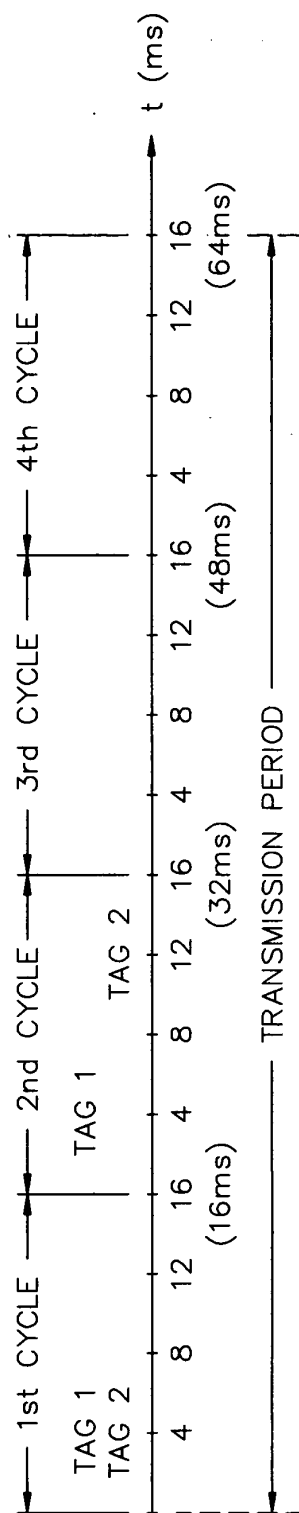
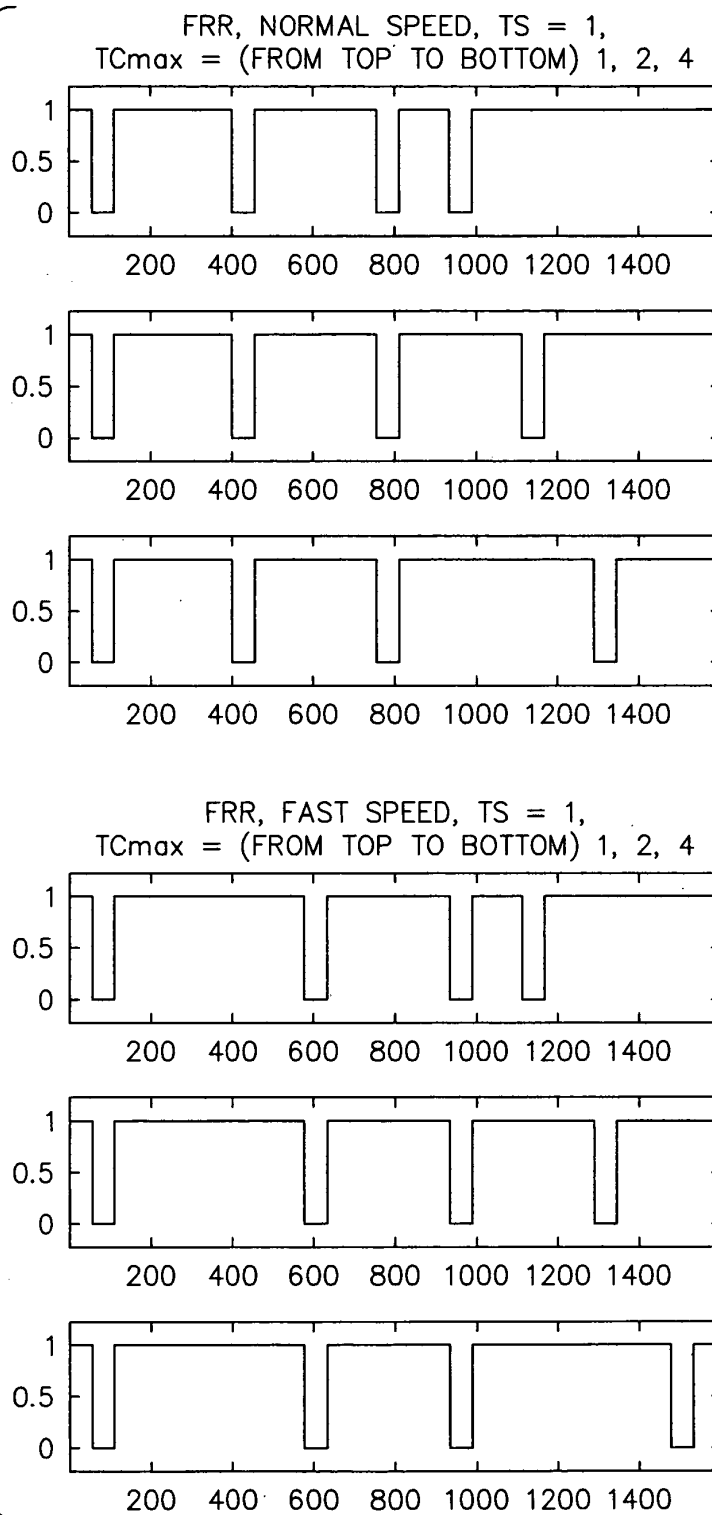


Fig. 2

Fig. 3a

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Fig. 3b

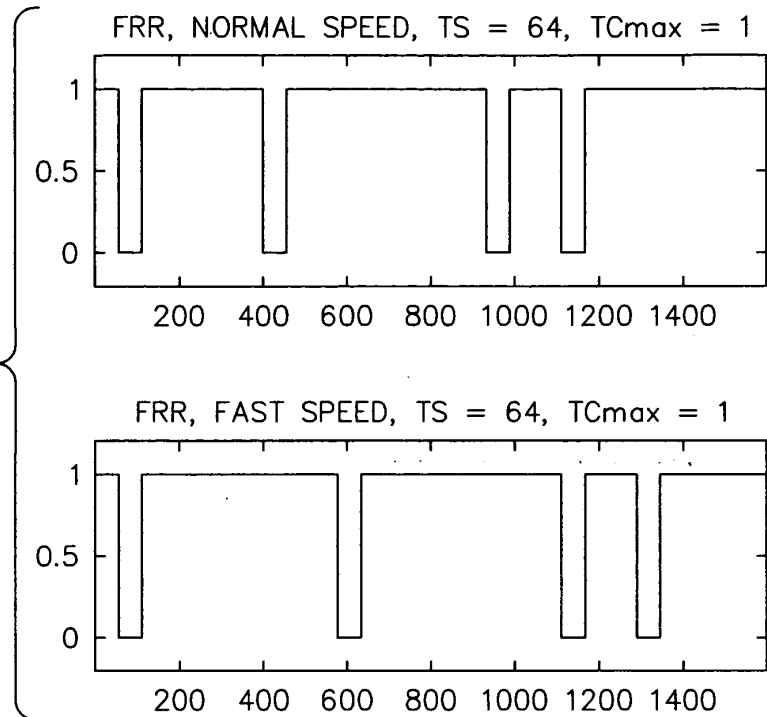
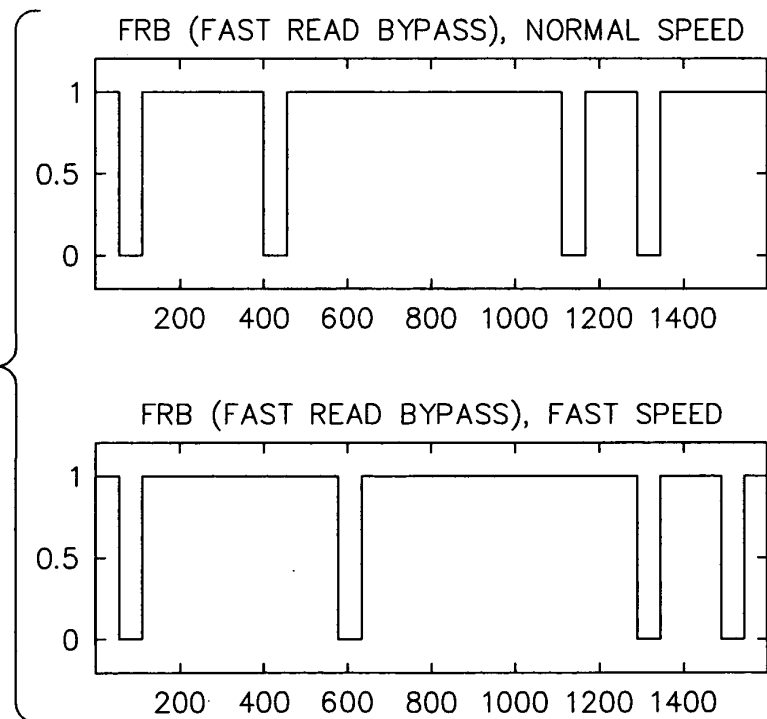


Fig. 3c



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"MATCH" CODE = TAG ID BIT RANGE A:B
$[4(TC+1)+3] \text{MODULO} 32 : [4TC] \text{MODULO} 32$

Fig. 4

EXAMPLE: TAG ID = \$825FE1A0

TC	"MATCH"	ACK
0	\$A0	\$1
1	\$1A	\$E
2	\$E1	\$F
3	\$FE	\$5
4	\$5F	\$2
5	\$25	\$8
6	\$82	\$0
7	\$08	\$A

Fig. 5

ACKNOWLEDGE = TAG ID BIT RANGE A:B
$[4(TC+2)+3] \text{MODULO} 32 : [4TC+8] \text{MODULO} 32$

Fig. 6

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TIMESLOTS	WAKE-UP SLOT = TAG ID BIT RANGE A:B
16	$[[4(TC+1)-1] \text{MODULO } 32 : [4TC] \text{MODULO } 32] \text{ XOR TC LSB}$
64	$[[[4(TC+1)+1] \text{MODULO } 32 : [4TC] \text{MODULO } 32] \text{ XOR TC LSB}]$

Fig. 7

EXAMPLE: TAG ID = \$825FE1A0

TC	RELEVANT NUMBER	SLEEP TIME 16	SLEEP TIME 64	SLEEP TIME 16 SEMI-INV.	SLEEP TIME 64 SEMI-INV.
TAG ID = \$825FE1A0					
0	\$A0 b1010 0000	\$0	0	\$0	0
1	\$1A b0001 1010	\$A	10	\$5	5
2	\$E1 b1110 0001	\$1	1	\$1	1
3	\$FE b1111 1110	\$E	14	\$1	1
4	\$5F b0101 1111	\$F	15	\$F	15
5	\$25 b0010 0101	\$5	5	\$A	10
6	\$82 b1000 0010	\$2	2	\$2	2
7	\$08 b0000 1000	\$8	8	\$7	7

Fig. 8